



SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : G 10601

Product Name : Guanine

Manufacture / Supplier Identification Company : Nice Chemicals (P) Ltd., PB No: 2217,
Manimala Road, Edappally, Kochi - 682 024,
Kerala, India.

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2 COMPOSITION / INFORMATION ON INGREDIENTS

Molecular Formula : $C_5H_5N_5O$

Synonyms :

CAS - No : 73 - 40 - 5

Molar Mass :

Molecular weight : 151.13 g/mol

EC - INDEX No :

EC - No : 200-799-8

3 HAZARDS IDENTIFICATION

Classification of the substance or mixture



Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] : Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC : Irritating to eyes, respiratory system and skin.

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Label Elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram	:	
Signal word	:	Warning
Hazard statement(s)	:	
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
Precautionary statement(s)	:	
P261	:	Avoid breathing dust/ fume/ gas/ mist/ vapours/
P305 + P351 + P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplimental Hazards	:	none
According to European Directive 67/548/EEC as amended.	:	
Hazard symbol(s)	:	
R-phrase(s)	:	
R36/37/38	:	Irritating to eyes, respiratory system and skin.
S-phrase(s)	:	
S26	:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	:	Wear suitable protective clothing.
Other Hazards	:	none

4 FIRST AID MEASURES

General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	:	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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If swallowed	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important symptoms and effects, both acute and delayed	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Indication of any immediate medical attention and special treatment needed	:	No data available

5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards arising from the substance or mixture	:	Carbon oxides, nitrogen oxides (NOx)
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further Information	:	No data available.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas
Environmental-protection	:	Do not let product enter drains.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal
Reference to other sections	:	For disposal see section 13.

7 HANDLING AND STORAGE

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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Specific end users : No data available

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter

Components with workplace control parameters

Exposure Controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection : impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection	:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	:	No data available

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance		Form : Powder Colour : Beige
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	No data available
Melting Point/Freezing point	:	Melting point/range: > 300 °C - lit.
Initial Boiling point and boiling range	:	No data available
Flash Point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour Pressure	:	No data available
Vapour Density	:	No data available
Relative density	:	No data available
Water solubility	:	No data available
Partition coefficient: octanol/water	:	No data available
Autoignition temperature	:	No data available

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Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Other Safety information	:	No data available

10 STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to be avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents
hazardous decomposition products	:	Other decomposition products - no data available

11 TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Acute Toxicity	:	No data available
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Further toxicological Information

Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitisation	:	No data available

Germ cell mutagenicity	:	Genotoxicity in vitro - Human - lymphocyte SLN Genotoxicity in vivo - mouse - Intraperitoneal Cytogenetic analysis
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Carcinogenicity	:	Carcinogenicity - rat - Subcutaneous Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic Effects: Ovarian tumors. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	:	No data available
Specific target organ toxicity - single exposure	:	No data available
Specific target organ toxicity - repeated exposure	:	No data available
Aspiration hazard	:	No data available
Signs and symptoms of exposure	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	:	RTECS: MF8260000

12 ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	No data available
Other adverse effects	:	No data available

13 DISPOSAL METHOD**Waste treatment methods**

Product	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber
Contaminated packaging	:	Dispose of as unused product.

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14 TRANSPORT INFORMATION

UN number	:	ADR/RID: - IMDG: - IATA: -
UN Proper shipping name	:	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es)	:	ADR/RID:- IMDG:- IATA:-.....
Packaging group	:	ADR/RID: - IMDG: - IATA:-
Environmental group	:	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	:	No data available

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture	:	No data available
Chemical safety assessment	:	No data available

16 OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge